

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,963,331 B1  
APPLICATION NO. : 09/525021  
DATED : November 8, 2005  
INVENTOR(S) : Katsuyuki Kobayashi et al.

Page 1 of 5

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ON THE TITLE PAGE

At Item (57) Abstract, line 1, "The" should read -This--.  
Line 4, "The" should read --The coordinate input--.  
Line 6, "device" should read --device,--.  
Line 7, "having" should read --consisting of a plurality of--.  
Line 9, "in" should read --in a--.  
Line 10, "in" should read --in a--.  
Line 12, "pixel" should read --pixels in each direction forward and backward from the pixel--.

COLUMN 1

Line 22, "an" should be deleted.

COLUMN 2

Line 4, "on" should read --on the--.  
Line 16, "cameras," should read --cameras. Additionally,--.  
Line 17, "and" should be deleted.  
Line 18, "an" should be deleted.  
Line 44, "when" should read --when a--.  
Line 46, "voltage, but" should read --voltage. However in a structure that receives only low levels of light (i.e., CCD output is small),--.  
Line 47, "satisfactorily" should read --satisfactorily,--.

COLUMN 2, CONT'D.

Line 48, "decreased, in a structure which receives only low levels" should be deleted.  
Line 49, "of light (namely CCD output is small). To adjust" should read --decreased. Adjusting--.  
Line 53, "required." should read --required. ¶ SUMMARY OF THE INVENTION--.  
Lines 65-67, "Embodiments of the invention will now be described in detail with reference to the accompanying drawings, in which:" should be deleted.

COLUMN 3

Line 46, "showing a" should read --showing--.  
Line 60, "OF" should read --OF THE--.  
Line 61, "EMBODIMENTS" should read --EMBODIMENTS  
¶ Preferred embodiments of the invention will now be described in detail with reference to the accompanying drawings.--.

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COLUMN 4

Line 4, "displaying" should read --displaying an--.  
Line 11, "beam 45," should read --beam 45 (FIG. 1),--.  
Line 26, "References" should read --References herein--.  
Line 43, "screen 10" should read --screen 10,--.  
Line 48, "computer" should read --computer 200--.  
Line 59, "information" should read --information,--.

COLUMN 5

Line 3, "memory" should read --memory,--.  
Line 61, "element 41," should read --element 41 thereby--.

COLUMN 6

Line 24, "i.e." should read --i.e.,--.

COLUMN 9

Line 22, "Therefore" should read --Therefore,--.  
Line 52, "unit 3," should read --unit 31,--.  
Line 63, "detection output" should read --luminous energy--.

COLUMN 10

Line 11, "seen" should read --shown--.  
Line 15, "CDROM" should read --CD ROM--.  
Line 29, "Input" should read --The input--.  
Line 30, "input, and" should read --input, and the--.  
Line 67, "without" should read --without the--.

COLUMN 11

Line 19, "sensor" should read --sensors--.

COLUMN 12

Line 13, "focus" should read --the focus--.  
Line 20, "degrees," should read --degrees (40°),--.  
Line 49, "stores" should read --stores an--.  
Line 52, "pixel" should read --pixel,--.

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COLUMN 13

Line 16, "i.e." should read --i.e.--.  
Line 27, "if" should read --if a--.  
Line 28, "together" should read --together the--.  
Line 43, "(i.e." should read --(i.e.--.  
Line 49, "(n+1th)" should read --(n+1)th--.  
Line 50, "subtracting" should read --subtracting the--.

COLUMN 14

Line 4, "situation.)." should read --situation)--.  
Line 6, "first" should read --first--.  
Line 9, "sets" should be deleted.  
Line 11, "unit" should read --unit 31--, and "of" should read --of the--.  
Line 17, "no." should read --nO--.  
Line 27, "to" should read --to a--.  
Line 28, "in" should read --in a--.  
Line 30, "that" should read --that--, and "S112" should read --S112--.  
Line 31, "level" should read --level--.

COLUMN 15

Line 40, "element" should read --element--.

COLUMN 16

Line 11, "cont" should read --count--.  
Line 12, "cont" should read --count--, and "in" should read --in the--.

COLUMN 17

Line 9, "(x-1,Y-1)" should read --(X-1,Y-1)--.  
Line 54, "in" should read --in the--.

COLUMN 18

Line 3, "N<sup>2</sup> pixels." should read --N<sup>2</sup> pixels--.  
Line 22, "of" should read --of the--.  
Line 42, "reach" should read --reach the--.  
Line 46, "increasing" should read --increasing the--.

COLUMN 19

Line 4, "of" should read --of the--.  
Line 15, "cont" should read --count--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 20

Line 10, "making LED light emitting" should read --making the LED light emitted--.  
Line 16, "cont" should read --count--.  
Line 20, "where" should read --where the--.  
Line 43, "a little" should be deleted.

COLUMN 22

Line 9, "having a" should read --having an--.

COLUMN 23

Line 32, "of the" should read --of a--.  
Line 33, "of the" should read --of the same--.

COLUMN 24

Line 17, "comprising;" should read --comprising;--.  
Line 55, "of the" should read --of a--.  
Line 56, "of the" should read --of the same--.

COLUMN 25

Line 30, "of the" should read --of a--.  
Line 31, "of the" should read --of the same--.  
Line 53, "of the" should read --of a--.  
Line 54, "of the" should read --of the same--.

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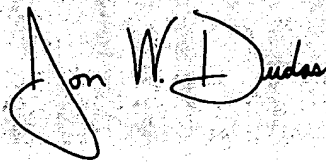
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 26

Line 17, "of the" should read --of a--.  
Line 18, "of the" should read --of the same--.  
Line 42, "of the" should read --of a--.  
Line 43, "of the" should read --of the same--.  
Line 55, "by spaced" should read --spaced by--.

Signed and Sealed this

Fifteenth Day of August, 2006

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a distinct "D".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*